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	Cy3	Cy5
1.	LD1686	
2.	LD1686	
3.	GJ1759	
4.	GJ1759	
5.	CP28	
6.	CP28	
7.	DH98	
8.	DH98	
9.	Cy3 control	
10.	Cy5 control	
11.	Male B (MB)	
12.	MB	
13.	MB	
14.	MB	
15.	MB	
16.	Female J (FJ)	
17.	FJ	
18.	FJ	
19.	FJ	
20.	FJ	

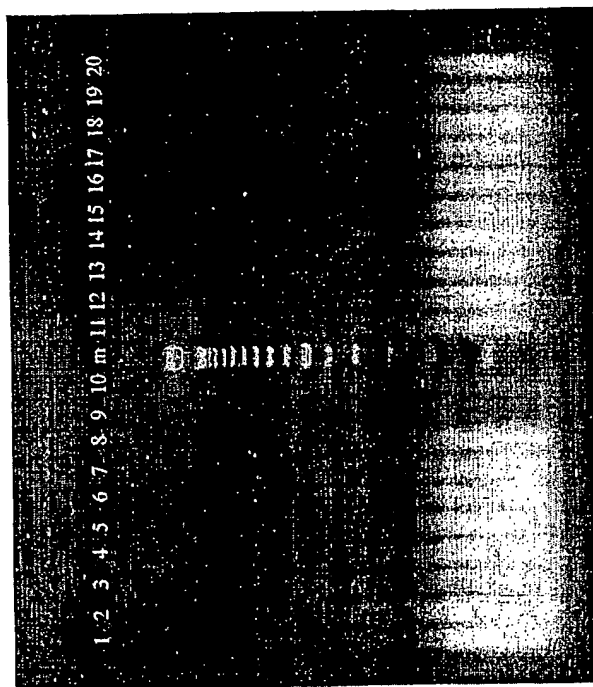


Figure 1

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SAMPLE # 8 (MA 1557 / FEMALE REFERENCE) – CONFIRMED MALE

MA1557/Female reference (46, XX) – confirmed male

Document: #8/J-65.cps
 Chip Name: DenoSensor™ Array 300 (rev. 1)
 Analyzed by: VV81
 Chip #1

Tgt Name	Cyto Location	#	[Mean Ratio] Mean CV(%)	Mean CorrC	NonModel (nh pct)
140 INS	11p tel	3	1.30	1 0.99 ++	0.001
270 STS 3'	Xp22.3	3	0.81	1 1.00	0.005
277 STS 5'	Xp22.3	3	0.59	1 0.99 --	0.001
270 VSL	Xp22.3	3	0.87	1 0.95 --	0.001
270 DPO exon 45-51	Xp21.1	3	0.59	1 1.00 --	0.001
280 DXS508	Xp11.2	3	0.70	1 0.99 --	0.002
281 DXS7132	Xq12	3	0.68	1 1.00	0.003
282 RA 3'	Xq11-q12	3	0.55	1 0.99 --	0.001
283 XIST	Xq13.2	3	0.88	2 1.00	0.005
284 OCL1	Xq25	3	0.67	1 0.99 --	0.001
286 SRV	Yp11.3	3	1.45	2 1.00 ++	0.001
287 R2Fa region	Yq11	3	1.21	0 0.99 ++	0.01
Total spots		859			
Mean CV, CorrC				1.4 0.99	
Ratio normalizer			0.75		
Model mean, SD			1.005 0.074		

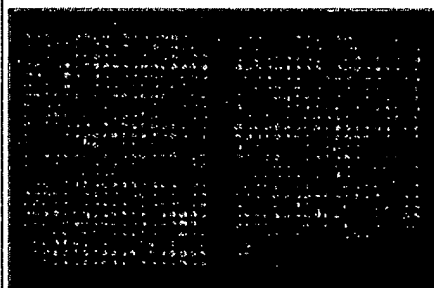


Figure 2

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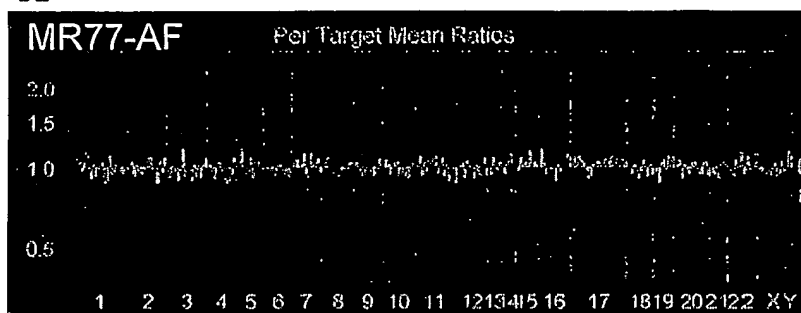
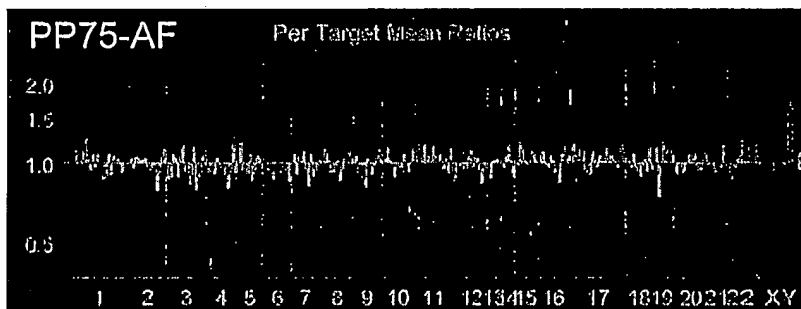
		Male 1 vs Female ref.		Male 2 vs Female ref.		Male 3 vs Female ref.		Male 4 vs Female ref.		Male 5 vs Female ref.	
SAMPLE		SYN 98-AF		YPP76-AF		JDC813-AF		ID47-AF		JH769-AF	
Name	CytoLoc	T/R	P<0.005	T/R	P<0.005	T/R	P<0.005	T/R	P<0.005	T/R	P<0.005
D21S378	21q11.2	0.97	0	0.94	0	1.02	0	0.98	0	0.93	0
RUNX1(AML1)	21q22.3	0.91	0	0.93	0	0.88	0	0.96	0	0.89	0
DYRK1A	21q22	0.95	0	0.93	0	0.89	0	0.85	0	1.04	0
D21S341,D21S342	21q22.3	0.93	0	0.97	0	0.95	0	1.00	0	0.92	0
PCNT2(KEN)	21q tel	1.11	0	1.15	0	1.14	0	1.10	0	1.04	0
21QTEL08	21q tel	0.98	0	0.99	0	1.01	0	0.98	0	1.01	0
DXYS129	X/Yp tel	0.97	0	1.00	0	0.98	0	1.02	0	0.97	0
STS 3'	Xp22.3									0.95	0
STS 5'	Xp22.3									0.81	0
KAL	Xp22.3									0.86	0
DMD exon 45-51	Xp21.1					1.03	0			0.86	0
DXS580	Xp11.2									0.95	0
DXS7132	Xq12	0.87	0	0.94	0	0.80	0	0.85	0	0.84	0
AR 3'	Xq11-q12										
XIST	Xq13.2	0.85	0					0.80		0.87	0
OCRL1	Xq25									1.00	0
EST CDY16c07	X/Yq tel	0.94	0	0.99	0	0.95	0	1.01	0	0.97	0
SRY	Yp11.3									1.04	0
AZFa region	Yq11									1.02	0

		Male 6 vs Female ref.		Male 7 vs Female ref.		Male 8 vs Female ref.		Male 9 vs Female ref.		Male 10 vs Female ref.	
SAMPLE		KATSD48-AF		RH80-AF		MA1557-AF		LD1688-AF		MGJ1759-AF	
Name	CytoLoc	T/R	P<0.005	T/R	P<0.005	T/R	P<0.005	T/R	P<0.005	T/R	P<0.005
D21S378	21q11.2	0.95	0	0.98	0	0.95	0	0.84	0	0.94	0
RUNX1(AML1)	21q22.3	0.95	0	0.90	0	1.03	0	0.95	0	0.91	0
DYRK1A	21q22	0.88	0	0.98	0	0.99	0	0.90	0	0.88	0
D21S341,D21S342	21q22.3	0.94	0	1.03	0	1.04	0	0.94	0	1.02	0
PCNT2(KEN)	21q tel	1.08	0	1.04	0	1.02	0	1.09	0	1.11	0
21QTEL08	21q tel	1.02	0	1.02	0	1.07	0	0.99	0	0.99	0
DXYS129	X/Yp tel	0.98	0	0.97	0	0.97	0	1.07	0	1.10	0
STS 3'	Xp22.3			0.87	0						
STS 5'	Xp22.3										
KAL	Xp22.3										
DMD exon 45-51	Xp21.1										
DXS580	Xp11.2	0.80	0	0.84	0						
DXS7132	Xq12	0.83	0	0.92	0						
AR 3'	Xq11-q12										
XIST	Xq13.2			0.85	0						
OCRL1	Xq25										
EST CDY16c07	X/Yq tel	0.96	0	0.94	0	1.03	0	0.9113	0	1.02	0
SRY	Yp11.3										
AZFa region	Yq11										

		T 21 Male 11 vs Female ref.		Female 1 vs Female ref.		Female 2 vs Male ref.		Female 3 vs Male ref.		Female 4 vs Male ref.	
SAMPLE		OZ1636-AF		MR77-AF		OP28-AF		DH98-AF		PR861-AF	
Name	CytoLoc	T/R	P<0.005	T/R	P<0.005	T/R	P<0.001	T/R	P<0.001	T/R	P<0.005
D21S378	21q11.2	1.03	0	0.96	0	0.87	0	1.01	0	0.98	0
RUNX1(AML1)	21q22.3			0.98	0	0.89	0	0.92	0	0.96	0
DYRK1A	21q22		0.05	0.91	0	0.92	0	0.88	0	1.06	0
D21S341,D21S342	21q22.3		0.05	1.03	0	0.94	0	0.99	0	0.92	0
PCNT2(KEN)	21q tel		0.01	1.04	0	1.02	0	1.03	0	1.03	0
21QTEL08	21q tel		0.05	1.01	0	1.05	0	0.92	0	1.03	0
DXYS129	X/Yp tel	0.89	0	1.00	0	1.01	0	1.01	0	0.94	0
STS 3'	Xp22.3	0.84	0	0.98	0						
STS 5'	Xp22.3			0.99	0						
KAL	Xp22.3			0.95	0						
DMD exon 45-51	Xp21.1			0.94	0						
DXS580	Xp11.2			0.99	0	1.12	0			1.14	0
DXS7132	Xq12			1.03	0	1.05	0	1.17	0	1.20	0
AR 3'	Xq11-q12			0.94	0						
XIST	Xq13.2	0.85	0	0.96	0						
OCRL1	Xq25			1.05	0						
EST CDY16c07	X/Yq tel	0.88	0	0.97	0	0.98	0	0.92	0	1.02	0
SRY	Yp11.3			1.15	0						
AZFa region	Yq11	1.19	0	1.09	0						

Figure 3

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A**B****Figure 4**

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Cytogenetic Location	Locus Name	Male 1 AF/ 46, XX Reference		Male 2 AF/ 46, XX Reference		Mono. X:Female 1 AF/ 46, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	0.95	0.5	0.98	0.4	0.98	0.5
21q22.3	RUNX1(AML1)	1.03	0.5	0.90	0.1	0.89	0.1
21q22	DYRK1A	0.99	0.5	0.98	0.5	0.93	0.2
21q22.3	D21S341,D21S342	1.04	0.5	1.03	0.5	0.92	0.1
21q tel	PCNT2(KEN)	1.02	0.5	1.04	0.4	1.12	0.1
21q tel	21QTEL08	1.07	0.5	1.02	0.5	1.02	0.5
Xp22.3	STS 3'	0.81	0.008	0.87	0.03	0.77	<0.001
Xp22.3	STS 5'	0.69	0.001	0.67	<0.001	0.65	<0.001
Xp22.3	KAL	0.67	0.001	0.71	<0.001	0.7	<0.001
Xp21.1	DMD exon 45-51	0.69	0.001	0.80	0.009	0.67	<0.001
Xp11.2	DXS580	0.78	0.002	0.84	0.1	0.85	0.1
Xq12	DXS7132	0.80	0.005	0.92	0.1	0.88	0.1
Xq11-q12	AR 3'	0.65	0.001	0.48	<0.001	0.44	<0.001
Xq13.2	XIST	0.81	0.005	0.65	0.1	0.78	0.002
Xq25	OCRL1	0.67	0.001	0.77	0.001	0.58	<0.001
Yp11.3	SRY	1.45	0.001	1.30	<0.001	1.15	0.1
Yq11	AZFa region	1.21	0.01	1.45	<0.001	1.17	0.1

Cytogenetic Location	Locus Name	Tris. 21:Female 2 AF/ 46, XX Reference		Tris. 21:Male 3 AF/ 46, XX Reference		Tris. 21:Male 4 AF/ 46, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	1.05	0.2	1.10	0.1	1.03	0.5
21q22.3	RUNX1(AML1)	1.21	0.008	1.15	0.1	1.24	0.5
21q22	DYRK1A	1.21	0.01	1.29	0.002	1.25	0.05
21q22.3	D21S341,D21S342	1.23	0.003	1.19	0.04	1.27	0.05
21q tel	PCNT2(KEN)	1.35	<0.001	1.42	<0.001	1.38	0.01
21q tel	21QTEL08	1.33	<0.001	1.22	0.005	1.27	0.05
Xp22.3	STS 3'	1.06	0.3	0.82	0.009	0.64	0.5
Xp22.3	STS 5'	0.93	0.2	0.65	<0.001	0.70	0.005
Xp22.3	KAL	0.97	0.5	0.71	<0.001	0.59	0.02
Xp21.1	DMD exon 45-51	0.95	0.4	0.73	<0.001	0.58	0.001
Xp11.2	DXS580	1.00	0.5	0.85	0.1	0.80	0.5
Xq12	DXS7132	0.95	0.3	0.89	0.1	0.79	0.01
Xq11-q12	AR 3'	0.82	0.008	0.53	<0.001	0.55	0.001
Xq13.2	XIST	0.96	0.3	0.81	0.009	0.65	0.6
Xq25	OCRL1	1.14	0.1	0.74	<0.001	0.72	0.005
Yp11.3	SRY	1.16	0.1	1.50	<0.001	1.55	<0.001
Yq11	AZFa region	1.11	0.1	1.56	<0.001	1.19	0.6

Figure 5

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Cytogenetic Location	Locus-Name	Male 5 AF/ 46,XY Reference		Male 5 AF/ 46,XX Reference		Male 6 AF/ 46,XY Reference		Male 6 AF/ 46,XX Reference	
		T/R	P-Value	T/R	P-Value	T/R	P-Value	T/R	P-Value
21q11.2	D21S378	0.94	0.5	0.99	0.5	0.83	0.5	0.82	0.1
21q22.3	RUNX1(AML1)	0.93	0.5	0.92	0.5	0.93	0.5	0.98	0.5
21q22	DYRK1A	0.99	0.5	1.00	0.5	1.00	0.5	1.01	0.5
21q22.3	D21S341,D21S342	0.96	0.5	0.95	0.5	0.91	0.5	0.94	0.5
21q.tel	PCNT2(KEN)	1.09	0.5	1.09	0.5	1.10	0.5	1.09	0.5
21q.tel	21QTEL08	1.06	0.5	1.13	0.5	1.15	0.5	1.14	0.5
Xp22.3	STS-3'	0.99	0.5	0.99	0.001	0.97	0.5	0.96	0.001
Xp22.3	STS-5'	0.89	0.5	0.68	0.001	0.95	0.5	0.88	0.001
Xp22.3	KAL	1.02	0.5	0.71	0.001	1.01	0.5	0.87	0.001
Xp21.1	DMD:exon 45-51	1.01	0.5	0.59	0.001	0.83	0.5	0.60	0.001
Xp11.2	DXS580	0.96	0.5	0.79	0.002	0.83	0.5	0.67	0.001
Xq12	DXS7132	0.94	0.5	0.82	0.005	0.75	0.02	0.67	0.001
Xq11-q12	AR 3'	1.02	0.5	0.64	0.001	0.93	0.5	0.65	0.001
Xq13.2	XIST	0.95	0.5	0.71	0.001	0.90	0.5	0.69	0.001
Xq25	OCRL1	1.02	0.5	0.62	0.001	0.98	0.5	0.69	0.001
Yp11.3	SRY	0.96	0.5	2.03	0.001	0.86	0.5	2.13	0.001
Yq11	AZFα region	1.04	0.5	1.29	0.01	0.94	0.5	1.20	0.5

Cytogenetic Location	Locus-Name	Female 3 AF/ 46,XY Reference		Female 3 AF/ 46,XX Reference		Female 4 AF/ 46,XY Reference		Female 4 AF/ 46,XX Reference	
		T/R	P-Value	T/R	P-Value	T/R	P-Value	T/R	P-Value
21q11.2	D21S378	0.85	0.5	0.92	0.5	0.98	0.5	0.94	0.5
21q22.3	RUNX1(AML1)	0.90	0.5	0.91	0.5	0.93	0.5	0.93	0.5
21q22	DYRK1A	1.06	0.5	0.98	0.5	1.01	0.5	0.96	0.5
21q22.3	D21S341,D21S342	0.92	0.5	0.94	0.5	0.86	0.5	0.81	0.5
21q.tel	PCNT2(KEN)	1.07	0.5	1.12	0.5	1.03	0.5	1.06	0.5
21q.tel	21QTEL08	1.08	0.5	1.00	0.5	0.91	0.5	1.01	0.5
Xp22.3	STS 3'	1.70	0.001	0.94	0.5	1.49	0.001	0.92	0.5
Xp22.3	STS 5'	1.42	0.001	0.96	0.5	1.34	0.001	0.99	0.5
Xp22.3	KAL	1.46	0.001	0.90	0.5	1.36	0.001	0.99	0.5
Xp21.1	DMD:exon 45-51	1.37	0.002	0.96	0.5	1.44	0.001	0.93	0.5
Xp11.2	DXS580	1.09	0.5	0.93	0.5	1.07	0.5	0.93	0.5
Xq12	DXS7132	0.94	0.5	0.89	0.5	1.07	0.5	0.92	0.5
Xq11-q12	AR 3'	1.52	0.001	0.94	0.5	1.37	0.001	0.98	0.5
Xq13.2	XIST	1.20	0.5	0.92	0.5	1.12	0.5	0.94	0.5
Xq25	OCRL1	1.79	0.001	0.92	0.5	1.60	0.001	0.99	0.5
Yp11.3	SRY	0.46	0.001	1.08	0.5	0.65	0.001	1.12	0.5
Yq11	AZFα region	0.86	0.001	1.09	0.5	0.77	0.005	0.98	0.5

Figure 6

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Cytogenetic Location	Locus Name	Male 7 AF/ 46, XX Reference		Male 7 Cells/ 46, XX Reference		Male 8 AF/ 46, XX Reference		Male 8 Cells/ 46, XX Reference		Male 9 AF/ 46, XX Reference		Male 9 Cells/ 46, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	0.97	0.4	1.05	0.2	0.94	0.2	1.01	0.5	0.98	0.5	1.03	0.4
21q22.3	RUNX1(AML1)	0.91	0.2	0.94	0.1	0.93	0.2	0.99	0.5	0.98	0.2	0.90	0.1
21q22	DYRK1A	0.95	0.3	0.97	0.2	0.93	0.2	1.04	0.2	0.85	0.4	0.91	0.2
21q22.3	D21S341,D21S342	0.93	0.2	0.99	0.6	0.97	0.4	1.00	0.5	1.00	0.5	0.91	0.1
21q tel	PCNT2(KEN)	1.11	0.1	0.98	0.4	1.15	0.1	1.08	0.1	1.10	0.2	1.11	0.1
21q tel	21QTEL08	0.98	0.5	1.02	0.4	0.99	0.4	1.01	0.5	0.98	0.3	1.02	0.4
Xp22.3	STS 3'	0.97	0.003	0.93	<0.001	0.92	<0.001	0.98	<0.001	0.97	<0.001	0.98	<0.001
Xp22.3	STS 5'	0.93	<0.001	0.93	<0.001	0.95	<0.001	0.98	<0.001	0.95	<0.001	0.98	<0.001
Xp22.3	KAL	0.93	<0.001	0.93	<0.001	0.93	<0.001	0.98	<0.001	0.95	<0.001	0.98	<0.001
Xp21.1	DMD exon 45-51	0.97	0.001	0.99	<0.001	0.97	<0.001	0.98	<0.001	0.98	<0.001	0.98	<0.001
Xp11.2	DXS580	0.97	0.001	0.91	<0.001	0.97	<0.001	0.98	<0.001	0.97	0.001	0.90	0.001
Xq12	DXS7132	0.97	0.2	0.94	0.002	0.94	0.5	0.98	0.01	0.95	0.02	0.91	0.2
Xq11-q12	AR 3'	0.93	<0.001	0.93	<0.001	0.93	<0.001	0.98	<0.001	0.98	<0.001	0.98	<0.001
Xq13.2	XIST	0.85	0.04	0.93	<0.001	0.95	<0.001	0.98	<0.001	0.90	0.003	0.97	<0.001
Xq25	OCRL1	0.97	<0.001	0.99	<0.001	0.97	<0.001	0.98	<0.001	0.98	0.001	0.98	<0.001
Yp11.3	SRY	1.49	<0.001	1.59	<0.001	1.65	<0.001	1.73	<0.001	1.35	0.004	1.53	<0.001
Yq11	AZFα region	1.35	<0.001	1.67	<0.001	1.78	<0.001	1.83	<0.001	1.43	<0.001	1.61	<0.001

Cytogenetic Location	Locus Name	Male 10 AF/ 46, XX Reference		Male 10 Cells/ 46, XX Reference		Male 11 AF/ 46, XX Reference		Male 11 Cells/ 46, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	0.95	0.2	1.02	0.5	1.02	0.5	0.91	0.3
21q22.3	RUNX1(AML1)	0.95	0.2	1.02	0.3	0.98	0.2	1.05	0.4
21q22	DYRK1A	0.98	0.3	1.08	0.1	0.99	0.3	1.09	0.3
21q22.3	D21S341,D21S342	0.94	0.2	0.99	0.6	0.95	0.5	0.98	0.6
21q tel	PCNT2(KEN)	1.08	0.1	0.98	0.2	1.14	0.1	1.12	0.1
21q tel	21QTEL08	1.02	0.5	1.03	0.4	1.01	0.5	1.09	0.4
Xp22.3	STS 3'	0.97	<0.001	0.93	<0.001	0.97	0.01	0.95	<0.001
Xp22.3	STS 5'	0.93	<0.001	0.93	<0.001	0.93	<0.001	0.98	<0.001
Xp22.3	KAL	0.93	<0.001	0.93	<0.001	0.93	<0.001	0.98	<0.001
Xp21.1	DMD exon 45-51	0.97	<0.001	0.99	<0.001	1.03	0.50	0.98	<0.001
Xp11.2	DXS580	0.90	<0.001	0.97	<0.001	0.97	0.004	0.98	<0.001
Xq12	DXS7132	0.93	0.003	0.93	<0.001	0.95	0.10	0.98	<0.001
Xq11-q12	AR 3'	0.93	<0.001	0.93	<0.001	0.93	0.004	0.98	<0.001
Xq13.2	XIST	0.74	<0.001	0.78	<0.001	0.97	0.001	0.98	<0.001
Xq25	OCRL1	0.97	<0.001	0.99	<0.001	0.97	<0.001	0.98	<0.001
Yp11.3	SRY	1.57	<0.001	1.43	<0.001	1.74	<0.001	1.37	<0.001
Yq11	AZFα region	1.49	<0.001	1.55	<0.001	1.62	<0.001	1.48	<0.001

Cytogenetic Location	Locus Name	Female 5 AF/ 46, XX Reference		Female 5 Cells/ 46, XX Reference		Female 6 AF/ 46, XX Reference		Female 6 Cells/ 46, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	1.10	0.2	1.08	0.2	0.98	0.3	1.02	0.4
21q22.3	RUNX1(AML1)	1.09	0.2	0.98	0.4	0.98	0.4	0.98	0.3
21q22	DYRK1A	1.12	0.2	1.05	0.3	0.91	0.1	1.02	0.2
21q22.3	D21S341,D21S342	0.96	0.4	0.98	0.4	1.03	0.5	1.00	0.5
21q tel	PCNT2(KEN)	1.00	0.5	1.03	0.4	1.04	0.3	1.00	0.5
21q tel	21QTEL08	1.12	0.2	1.05	0.2	1.01	0.4	1.01	0.4
Xp22.3	STS 3'	1.08	0.3	1.00	0.4	0.98	0.5	1.04	0.1
Xp22.3	STS 5'	0.94	0.3	0.98	0.1	0.99	0.5	1.01	0.5
Xp22.3	KAL	0.97	0.2	0.98	0.02	0.95	0.4	0.99	0.4
Xp21.1	DMD exon 45-51	1.14	0.1	1.03	0.5	0.94	0.1	1.05	0.2
Xp11.2	DXS580	0.92	0.2	0.90	0.2	0.99	0.4	1.06	0.04
Xq12	DXS7132	1.05	0.3	1.05	0.3	1.03	0.3	0.99	0.4
Xq11-q12	AR 3'	0.94	0.3	0.98	0.1	0.94	0.2	0.98	<0.001
Xq13.2	XIST	0.94	0.3	1.02	0.5	0.96	0.2	1.07	0.1
Xq25	OCRL1	0.99	0.2	0.94	0.1	1.05	0.5	0.98	0.5
Yp11.3	SRY	0.94	0.4	1.02	0.5	1.15	0.01	0.98	0.6
Yq11	AZFα region	0.94	0.3	1.01	0.5	1.09	0.1	1.08	0.03

Figure 7

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